OPERATOR MANUAL

Castle®

7535, 7936A & 7937 Sonic Cleaners

MDT Biologic Company
1777 East Henrietta Road
P.O. Box 23077
Rochester, New York 14692, U.S.A.

Technology for Life

30436 Rev. E

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Rev. E (2/19/92) General Revision

Related Publications:

Installation Instructions	30435
Service/Parts Manual	30437

DESCRIPTION OF SYMBOLS AND NOTES IN MANUAL

The following symbols with related notes appear in this manual.

"Warning" notes alert the user to the possibility of personal injury.

"Caution" notes alert the user to the possibility of damage to the equipment.

"Notes" alert the user to pertinent facts and conditions.

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IMPORTANT

THE SPECIAL SAFETY INSTRUCTIONS THAT FOLLOW APPEAR WITHIN THE MANUAL. READ THEM CAREFULLY BEFORE OPERATING AND FOLLOW THE INSTRUCTIONS.

"Warning" notes alert the user to the possibility of personal injury.

DO NOT touch the rear wall of the tank. The wall is hot when the solution level is below the liquid level mark on the rear wall. Burns may result from touching the hot surface.

NOTES

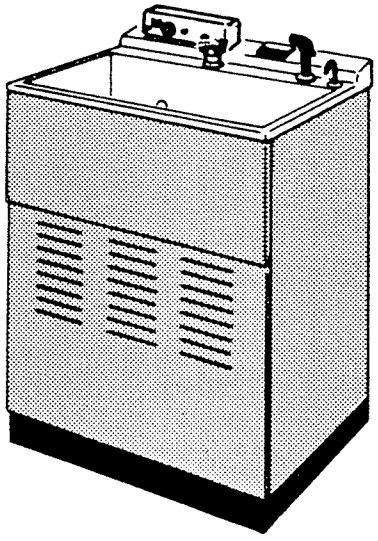
GENERAL DESCRIPTION

The following instructions apply to the portable Model 7935 and the stationary Models 7936A and 7937 Sonic Cleaners.

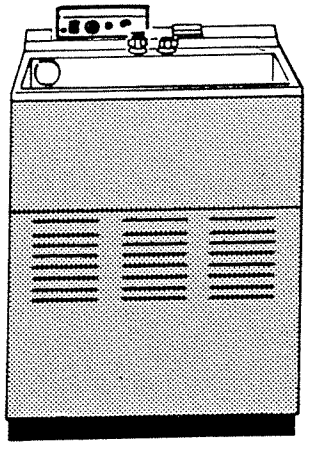
All three models clean surgical instruments and similar type hospital hardware, using sonic energy in a water/detergent solution. A heater maintains the cleaning solution at operating temperature for continuous processing of the instruments or similar hardware.

The cleaning chamber is designed to accept a Castle basket and/or instrument tray containing 20 pounds (9 Kgs.) maximum load.

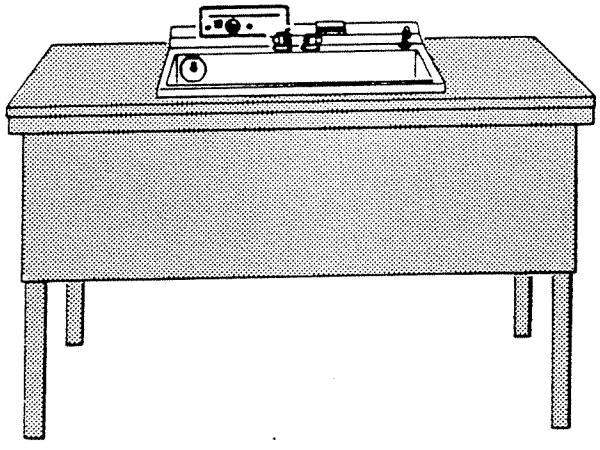
Effective cleaning is attained best on hard instruments. Soft items such as plastics and rubber are difficult to clean.



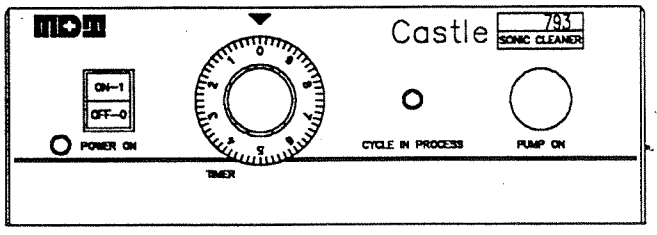
PORTABLE MODEL 7935

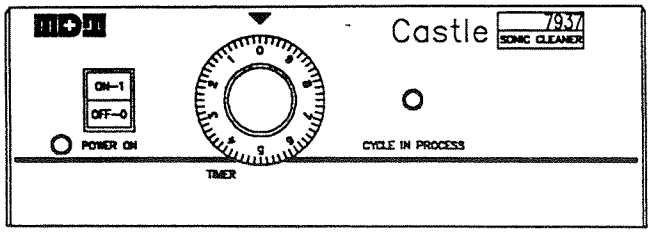


CABINET MODEL 7936A



COUNTER TOP MODEL 7937





CONTROL PANEL

OPERATION

PREPARATION BEFORE OPERATION

1. **Portable Model 7935:** Connect the 3-prong electrical supply cord to a mating 20 Amp receptacle. Connect the fill/drain hose to the sink faucet. A faucet adapter is supplied for making this connection.
2. **All Models:** Fill the tank with lukewarm water (80° to 100°F, 27° to 38°C) to the level marked on the rear wall of the tank.
3. Add 1 to 2 quarts (1 to 2 liters) of Castle 7900 Sonic Detergent to the water in the tank. The variable amount is dependent on the type of soil and its adherence to the loads being processed. Periodic addition of detergent is recommended when the sonic cleaner is used for constant daily processing. The strength of the cleaning solution will diminish during usage. Replace the solution when excessively soiled.
4. Press the ON/OFF rocker switch to **on**. The POWER ON light will be **on** and the heater will maintain the cleaning solution at operating temperature.
5. Allow the unit to operate until activity is observed on the surface of the solution. This will condition (degas) the solution.

DO NOT touch the rear wall of the tank. The wall is hot when the solution level is below the liquid level mark on the rear wall. Burns may result from touching the hot surface.

OPERATING INSTRUCTIONS

Be careful not to scratch inside surface of the tank with jewelry (rings, bracelets, etc., worn by the operator). Scratches reduce tank life and performance during sonic application.

1. Place the load to be processed in an instrument tray. Suspend the tray in a Castle stainless steel MPS basket or attach extension handles to the tray and immerse the load in the cleaning solution.
2. Set the timer for the desired cleaning time (average time for most instrument loads will be five minutes). The IN-PROCESS light will be **on** and the heater will be **off** during the cleaning phase.
3. When the IN PROCESS light goes out, the cleaning phase is complete. Remove the load from the tank and rinse the load in a separate sink. The heater will maintain the solution at the correct temperature for the next load.
4. To remove the cleaning solution from the tank, press the PUMP ON pushbutton. The pushbutton lights when the drain pump is operating. The drain pump shuts off automatically.

On counter top Model 7937 open the ball valve to drain the cleaning solution from the tank.

5. When all loads are processed, press the ON/OFF rocker switch to **off**.

TRAY LOADING INFORMATION

1. Open all jointed instruments for maximum exposure of joint, jaw, blade, and lock surfaces.
2. Place items in trays one at a time, positioned and stacked for maximum surface exposure. Use a crisscrossed layer pattern with each layer in the opposite direction to avoid closely packed or dense areas. Place the longer and heavier items in the bottom of the tray. For maximum cleaning performance, use additional trays rather than overloading a tray.

PREVENTIVE MAINTENANCE

Preventive maintenance performed at periodic scheduled intervals ensures that equipment operates at maximum efficiency, operates safely, and reduces time lost when equipment is not functional, waiting for service or repairs.

DAILY

Clean Sonic Tank

Be careful not to scratch inside surface of the tank with jewelry (rings, bracelets, etc., worn by the operator). Scratches reduce tank life and performance during sonic application.

Clean the inside of the sonic tank daily with a soft damp cloth and mild detergent.

Cavitation erosion of the tank bottom is common.

WEEKLY

Clean Control Panel

Clean the control panel weekly with a dry soft cloth. The panel is splash-proof but due to the electrical components, it will not withstand the application of excessive moisture.

EVERY THREE MONTHS

Inspect Security & Continuity of Green Ground Wire (Portable Model 7935)

Every three months check that the green ground wire in the 3-prong plug is securely fastened to the ground prong and that the opposite end is firmly secured to the chassis. Make a continuity check of the green wire in the supply cord, from the ground prong to the opposite end of the wire to ensure there is no break in the wire.

Clean Liquid Level Probe Electrode

Every three months remove the liquid level probe electrode and clean it and its housing to ensure proper liquid grounding.

RECOMMENDED SPARE PARTS

ORDERING INFORMATION

The items listed below may be ordered from your MDT Product Support Representative or your nearest MDT Regional Office. Or, you may contact:

MDT Corporation
P.O. Box 23077
Rochester, New York 14692
(716) 475-1400

QTY	PART NO.	DESCRIPTION
6	54003	Fuse, 8 Amp, 250V (Type 3AG)
6	36569	Lamp, 28V Miniature
3	54013	Fuse, 12 Amp (Type 3AB)
3	51977	Tubing, Shrinkable (2 inches)
3	51978	Tubing, Shrinkable (3/8 inches)
*1	44661	Detergent, 7900 Sonic (1 gallon)
*1	44663	Detergent, 7900 Sonic (box of four 1 gallon)
1	49833	Electrode, Liquid Level Probe
1	513017	Switch, Rocker (Power On)
1	514253	Switch, Push Button Momentary
1	514262	Bulb, Push Button Momentary Switch
1	514261	Lens, Push Button Momentary Switch
1	86980	Light, Pilot (Cycle In Process/Power On)

*Alternates - select part number that applies.

QUALITY SERVICE — RELIABLE PERFORMANCE

Preventive maintenance performed by factory trained Product Support Representatives, using authorized parts and service techniques is recommended. Recognizing symptoms of potential trouble and making corrections immediately is less costly and time consuming than repairing damaged equipment. Our Performance Assurance Plan offers scientific maintenance, not merely repair service.

For quality service on this equipment and information on our Performance Assurance Plan, contact your nearest MDT Regional Office or write to MDT Corporation, P.O. Box 23077, Rochester, New York 14692; or telephone Area Code 716/475-1400.

It is advised that a stock of the Recommended Spare Parts be maintained to ensure parts are immediately available when needed.

NOTE

A Service Manual consisting of operational information, service information, and a complete parts list can be purchased from MDT Corporation.

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